

(FILE 'HOME' ENTERED AT 14:24:44 ON 07 NOV 2003)

FILE 'REGISTRY' ENTERED AT 14:24:56 ON 07 NOV 2003

L1 STRUCTURE uploaded
L2 6 S L1 SSS FULL

FILE 'CAPLUS, USPATFULL' ENTERED AT 14:25:33 ON 07 NOV 2003

L3 3 FILE CAPLUS
L4 2 FILE USPATFULL
TOTAL FOR ALL FILES
L5 5 S L2
L6 STRUCTURE uploaded

FILE 'REGISTRY' ENTERED AT 14:28:59 ON 07 NOV 2003

L7 6 FILE CAPLUS

FILE 'CAPLUS, USPATFULL' ENTERED AT 14:29:13 ON 07 NOV 2003

L8 3 FILE CAPLUS
L9 2 FILE USPATFULL
TOTAL FOR ALL FILES
L10 5 S L7
L11 0 FILE CAPLUS
L12 0 FILE USPATFULL
TOTAL FOR ALL FILES
L13 0 S L10 NOT L5
SAVE ALL LSIRCARIGE/L

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FILE 'USPATFULL' ENTERED AT 14:29:13 ON 07 NOV 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 17
L8 3 FILE CAPLUS
L9 2 FILE USPATFULL

TOTAL FOR ALL FILES
L10 5 L7

=> s l10 not 15
L11 0 FILE CAPLUS
L12 0 FILE USPATFULL

TOTAL FOR ALL FILES
L13 0 L10 NOT L5

=> d his

(FILE 'HOME' ENTERED AT 14:24:44 ON 07 NOV 2003)

FILE 'REGISTRY' ENTERED AT 14:24:56 ON 07 NOV 2003
L1 STRUCTURE uploaded
L2 6 S L1 SSS FULL

FILE 'CAPLUS, USPATFULL' ENTERED AT 14:25:33 ON 07 NOV 2003
L3 3 FILE CAPLUS
L4 2 FILE USPATFULL
TOTAL FOR ALL FILES
L5 5 S L2
L6 STRUCTURE uploaded

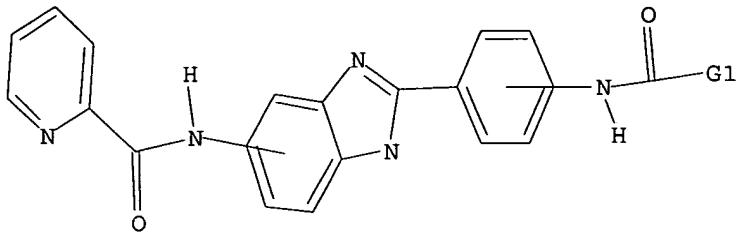
FILE 'REGISTRY' ENTERED AT 14:28:59 ON 07 NOV 2003
L7 6 FILE CAPLUS

FILE 'CAPLUS, USPATFULL' ENTERED AT 14:29:13 ON 07 NOV 2003
L8 3 FILE CAPLUS
L9 2 FILE USPATFULL
TOTAL FOR ALL FILES
L10 5 S L7
L11 0 FILE CAPLUS
L12 0 FILE USPATFULL
TOTAL FOR ALL FILES
L13 0 S L10 NOT L5

=>
Uploading 09983054.str

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



G1 H, Cb, Cy, Hy

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sss full
FULL SEARCH INITIATED 14:25:19
FULL SCREEN SEARCH COMPLETED - 269 TO ITERATE

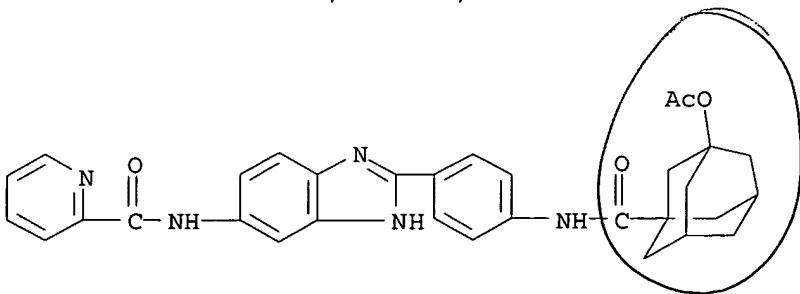
100.0% PROCESSED 269 ITERATIONS
SEARCH TIME: 00.00.01

6 ANSWERS

L2 6 SEA SSS FUL L1

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L2 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 609853-71-6 REGISTRY
CN 2-Pyridinecarboxamide, N-[2-[4-[[[3-(acetoxy)tricyclo[3.3.1.13,7]dec-1-yl]carbonyl]amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C32 H31 N5 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

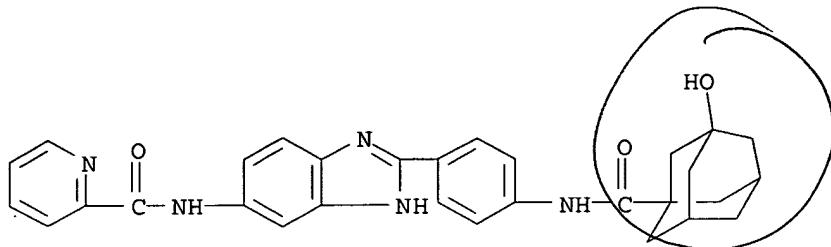


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 609853-70-5 REGISTRY
CN 2-Pyridinecarboxamide, N-[2-[4-[[3-hydroxytricyclo[3.3.1.13,7]dec-1-

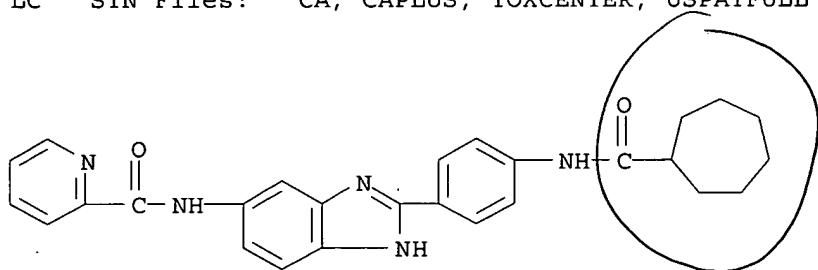
FS yl)carbonyl]amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)
3D CONCORD
MF C30 H29 N5 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

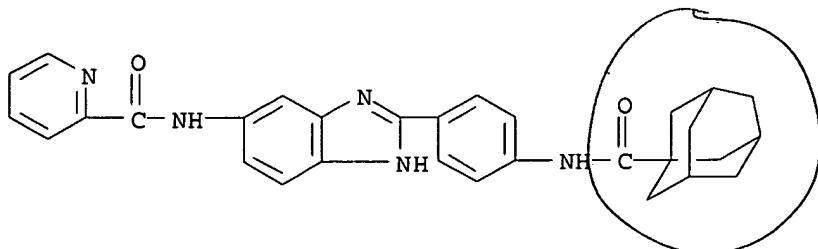
L2 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 479074-73-2 REGISTRY
CN 2-Pyridinecarboxamide, N-[2-[4-[(cycloheptylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C27 H27 N5 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

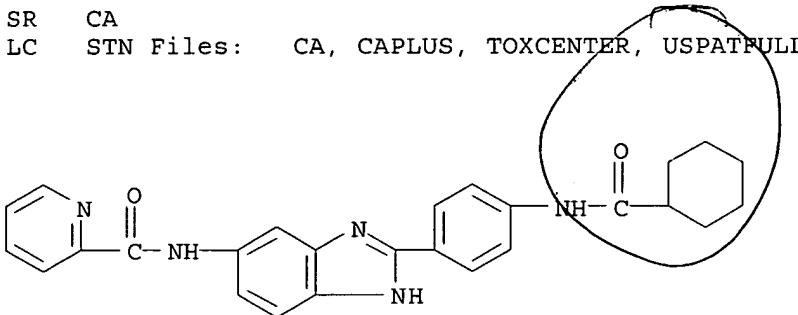
L2 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 479074-72-1 REGISTRY
CN 2-Pyridinecarboxamide, N-[2-[4-[(tricyclo[3.3.1.13,7]dec-1-ylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C30 H29 N5 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

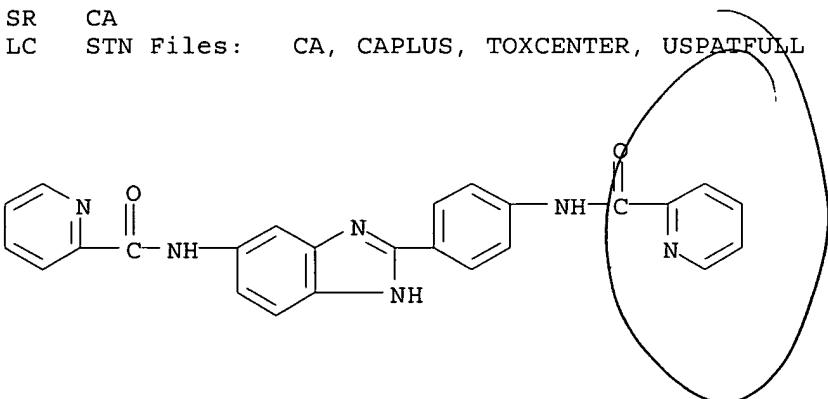
L2 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 479074-71-0 REGISTRY
CN 2-Pyridinecarboxamide, N-[2-[4-[(cyclohexylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl] - (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C26 H25 N5 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2003 ACS on STN
RN 366011-96-3 REGISTRY
CN 2-Pyridinecarboxamide, N-[4-[5-[(2-pyridinylcarbonyl)amino]-1H-benzimidazol-2-yl]phenyl] - (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H18 N6 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus, uspatful
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
158.23	158.44

FILE 'CAPLUS' ENTERED AT 14:25:33 ON 07 NOV 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 14:25:33 ON 07 NOV 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 12
L3 3 FILE CAPLUS
L4 2 FILE USPATFULL

TOTAL FOR ALL FILES
L5 5 L2

=> d 1-5 ibib

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:796412 CAPLUS
DOCUMENT NUMBER: 139:307758
TITLE: Use of benzimidazole analogs in the treatment of cell proliferation
INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.
PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA
SOURCE: PCT Int. Appl., 280 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082186	A2	20031009	WO 2003-US6981	20030306
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2002-367686P P 20020325

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:5494 CAPLUS
DOCUMENT NUMBER: 138:55965
TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE
INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 128 pp., Cont.-in-part of U.S. Ser. No. 422,397.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003004203	A1	20030102	US 2001-983054	20011016

US 6271390	B1	20010807	US 1999-316870	19990521
US 6303645	B1	20011016	US 1999-422397	19991021
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980522
			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

OTHER SOURCE(S) : MARPAT 138:55965

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:757818 CAPLUS
 DOCUMENT NUMBER: 135:303891
 TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.
 PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA
 SOURCE: U.S., 157 pp., Cont.-in-part of U.S. 6,271,390.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6303645	B1	20011016	US 1999-422397	19991021
US 6271390	B1	20010807	US 1999-316870	19990521
US 2002010343	A1	20020124	US 2001-882340	20010614
US 6451829	B2	20020917		
US 2003004203	A1	20030102	US 2001-983054	20011016
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980522
			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

OTHER SOURCE(S) : MARPAT 135:303891
 REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 5 USPATFULL on STN
 ACCESSION NUMBER: 2003:4162 USPATFULL
 TITLE: Benzimidazole derivatives as modulators of IgE
 INVENTOR(S): Sircar, Jagadish C., San Diego, CA, UNITED STATES
 Richards, Mark L., San Diego, CA, UNITED STATES
 Campbell, Michael G., Durham, NC, UNITED STATES
 Major, Michael W., Mequon, WI, UNITED STATES

NUMBER	KIND	DATE
PATENT INFORMATION: US 2003004203	A1	20030102
APPLICATION INFO.: US 2001-983054	A1	20011016 (9)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-422397, filed on 21 Oct 1999, PATENTED Continuation-in-part of Ser. No. US 1999-316870, filed on 21 May 1999, PATENTED		

NUMBER	DATE
PRIORITY INFORMATION: US 1998-86494P	19980522 (60)
DOCUMENT TYPE: Utility	
FILE SEGMENT: APPLICATION	
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER DRIVE, SIXTEENTH FLOOR, NEWPORT BEACH, CA, 92660	
NUMBER OF CLAIMS: 9	
EXEMPLARY CLAIM: 1	
LINE COUNT: 791	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 5 USPATFULL on STN
 ACCESSION NUMBER: 2001:179137 USPATFULL
 TITLE: Benzimidazole derivatives as modulators of IgE
 INVENTOR(S): Sircar, Jagadish C., San Diego, CA, United States
 Richards, Mark L., La Jolla, CA, United States
 Campbell, Michael G., Durham, NC, United States
 Major, Michael W., Glendale, WI, United States
 PATENT ASSIGNEE(S): Avanir Pharmaceuticals, San Diego, CA, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6303645	B1	20011016
APPLICATION INFO.:	US 1999-422397		19991021 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-316870, filed on 21 May 1999, now patented, Pat. No. US 6271390		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-86494P	19980521 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Jarvis, William R. A.	
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear, LLP	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
LINE COUNT:	705	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

=> d 1-5 ibib, hitstr

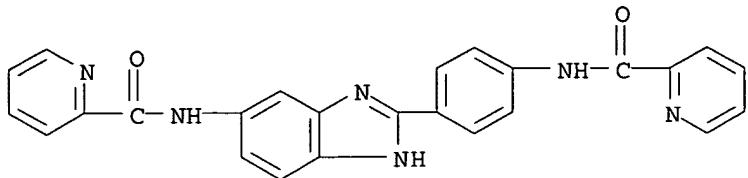
L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:796412 CAPLUS
 DOCUMENT NUMBER: 139:307758
 TITLE: Use of benzimidazole analogs in the treatment of cell proliferation
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.
 PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA
 SOURCE: PCT Int. Appl., 280 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082186	A2	20031009	WO 2003-US6981	20030306
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

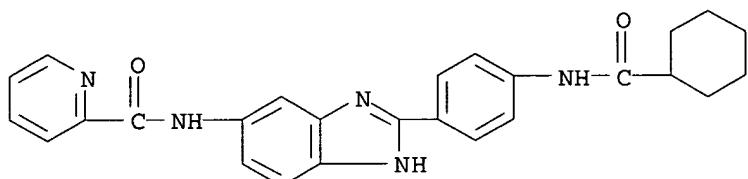
PRIORITY APPLN. INFO.: US 2002-367686P P 20020325
 IT 366011-96-3 479074-71-0 479074-72-1
 479074-73-2 609853-70-5 609853-71-6
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)
(use of benzimidazole analogs in the treatment of cell proliferation)

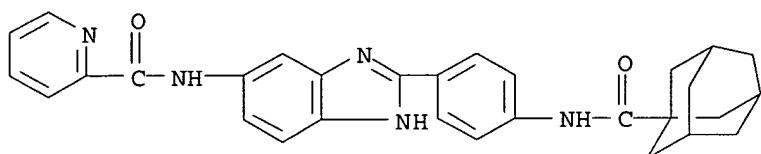
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CN 2-Pyridinecarboxamide, N-[4-[5-[(2-pyridinylcarbonyl)amino]-1H-benzimidazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



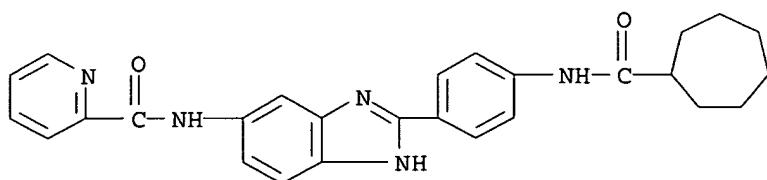
RN 479074-71-0 CAPLUS
CN 2-Pyridinecarboxamide, N-[2-[4-[(cyclohexylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



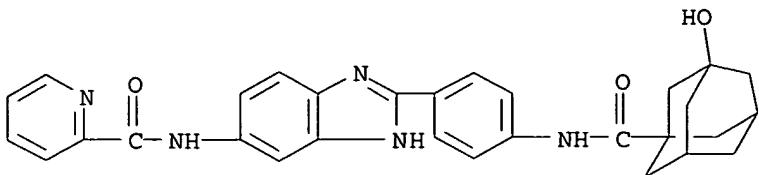
RN 479074-72-1 CAPLUS
CN 2-Pyridinecarboxamide, N-[2-[4-[(tricyclo[3.3.1.13,7]dec-1-ylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 479074-73-2 CAPLUS
CN 2-Pyridinecarboxamide, N-[2-[4-[(cycloheptylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)

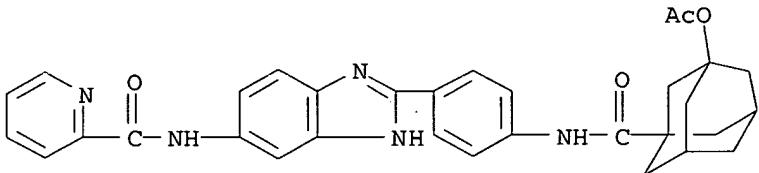


RN 609853-70-5 CAPLUS
CN 2-Pyridinecarboxamide, N-[2-[4-[[3-hydroxytricyclo[3.3.1.13,7]dec-1-yl]carbonyl]amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 609853-71-6 CAPLUS

CN 2-Pyridinecarboxamide, N-[2-[4-[[3-(acetyloxy)tricyclo[3.3.1.13,7]dec-1-yl]carbonyl]amino]phenyl]-1H-benzimidazol-5-yl] - (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:5494 CAPLUS

DOCUMENT NUMBER: 138:55965

TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE

INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 128 pp., Cont.-in-part of U.S. Ser. No. 422,397.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003004203	A1	20030102	US 2001-983054	20011016
US 6271390	B1	20010807	US 1999-316870	19990521
US 6303645	B1	20011016	US 1999-422397	19991021
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980522
			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

OTHER SOURCE(S): MARPAT 138:55965

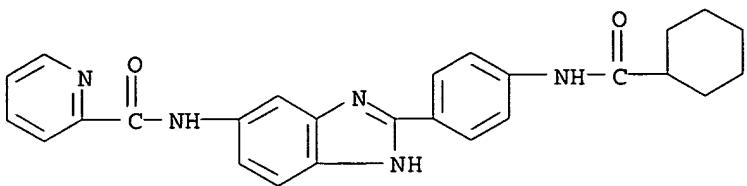
IT 479074-71-0P 479074-72-1P 479074-73-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis of diacylbenzimidazole derivs. as modulators of IgE)

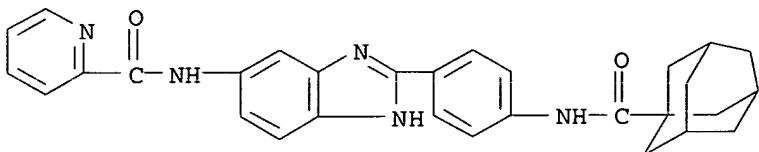
RN 479074-71-0 CAPLUS

CN 2-Pyridinecarboxamide, N-[2-[4-[(cyclohexylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl] - (9CI) (CA INDEX NAME)



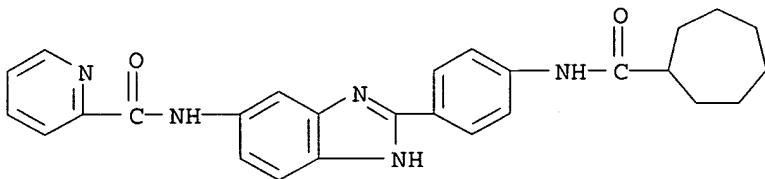
RN 479074-72-1 CAPLUS

CN 2-Pyridinecarboxamide, N-[2-[4-[(tricyclo[3.3.1.13,7]dec-1-ylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 479074-73-2 CAPLUS

CN 2-Pyridinecarboxamide, N-[2-[4-[(cycloheptylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:757818 CAPLUS

DOCUMENT NUMBER: 135:303891

TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE

INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.

PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA

SOURCE: U.S., 157 pp., Cont.-in-part of U.S. 6,271,390.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6303645	B1	20011016	US 1999-422397	19991021
US 6271390	B1	20010807	US 1999-316870	19990521
US 2002010343	A1	20020124	US 2001-882340	20010614
US 6451829	B2	20020917		
US 2003004203	A1	20030102	US 2001-983054	20011016
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			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

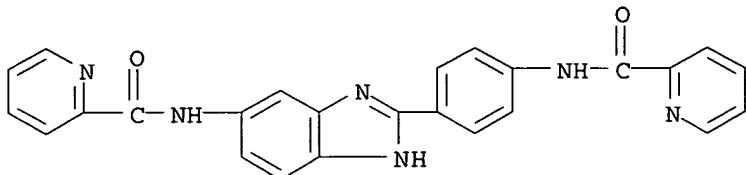
OTHER SOURCE(S): MARPAT 135:303891

IT 366011-96-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug; synthesis of diacylbenzimidazole derivs. as modulators of IgE)

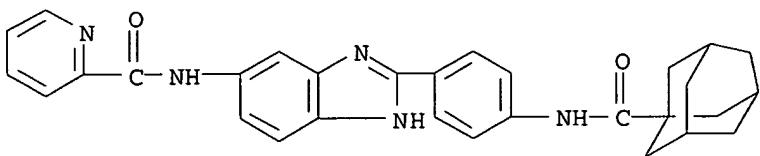
RN 366011-96-3 CAPLUS

CN 2-Pyridinecarboxamide, N-[4-[5-[(2-pyridinylcarbonyl)amino]-1H-benzimidazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



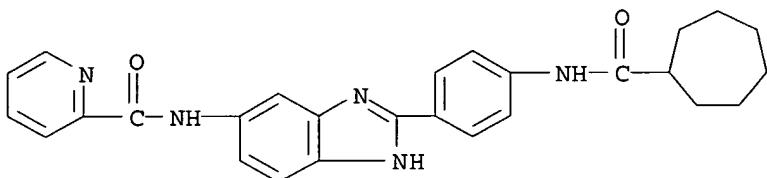
RN 479074-72-1 USPATFULL

CN 2-Pyridinecarboxamide, N-[2-[4-[(tricyclo[3.3.1.13,7]dec-1-ylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 479074-73-2 USPATFULL

CN 2-Pyridinecarboxamide, N-[2-[4-[(cycloheptylcarbonyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2001:179137 USPATFULL

TITLE: Benzimidazole derivatives as modulators of IgE

INVENTOR(S): Sircar, Jagadish C., San Diego, CA, United States

Richards, Mark L., La Jolla, CA, United States

Campbell, Michael G., Durham, NC, United States

Major, Michael W., Glendale, WI, United States

PATENT ASSIGNEE(S): Avanir Pharmaceuticals, San Diego, CA, United States
(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6303645 B1 20011016

APPLICATION INFO.: US 1999-422397 19991021 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-316870, filed
on 21 May 1999, now patented, Pat. No. US 6271390

NUMBER DATE

PRIORITY INFORMATION: US 1998-86494P 19980521 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Jarvis, William R. A.

LEGAL REPRESENTATIVE: Knobbe, Martens, Olson & Bear, LLP

NUMBER OF CLAIMS: 11

EXEMPLARY CLAIM: 1

LINE COUNT: 705

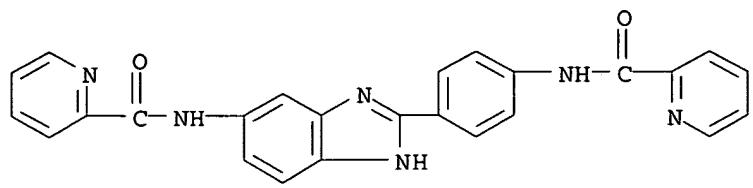
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 366011-96-3P

(drug; synthesis of diacylbenzimidazole derivs. as modulators of IgE)

RN 366011-96-3 USPATFULL

CN 2-Pyridinecarboxamide, N-[4-[(2-pyridinylcarbonyl)amino]-1H-benzimidazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:796412 CAPLUS
 DOCUMENT NUMBER: 139:307758
 TITLE: Use of benzimidazole analogs in the treatment of cell proliferation
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.
 PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA
 SOURCE: PCT Int. Appl., 280 pp.
 CODEN: PIIXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082186	A2	20031009	WO 2003-US6981	20030306
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2002-367686P P 20020325

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:5494 CAPLUS
 DOCUMENT NUMBER: 138:55965
 TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 128 pp., Cont.-in-part of U.S. Ser. No. 422,397.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003004203	A1	20030102	US 2001-983054	20011016
US 6271390	B1	20010807	US 1999-316870	19990521
US 6303645	B1	20011016	US 1999-422397	19991021
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980522
			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

OTHER SOURCE(S): MARPAT 138:55965

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:757818 CAPLUS
 DOCUMENT NUMBER: 135:303891
 TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.

PATENT ASSIGNEE(S) : Avanir Pharmaceuticals, USA
SOURCE: U.S., 157 pp., Cont.-in-part of U.S. 6,271,390.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6303645	B1	20011016	US 1999-422397	19991021
US 6271390	B1	20010807	US 1999-316870	19990521
US 2002010343	A1	20020124	US 2001-882340	20010614
US 6451829	B2	20020917		
US 2003004203	A1	20030102	US 2001-983054	20011016
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980522
			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

OTHER SOURCE(S) : MARPAT 135:303891
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 5 USPATFULL on STN
ACCESSION NUMBER: 2003:4162 USPATFULL
TITLE: Benzimidazole derivatives as modulators of IgE
INVENTOR(S): Sircar, Jagadish C., San Diego, CA, UNITED STATES
Richards, Mark L., San Diego, CA, UNITED STATES
Campbell, Michael G., Durham, NC, UNITED STATES
Major, Michael W., Mequon, WI, UNITED STATES

NUMBER	KIND	DATE
US 2003004203	A1	20030102
US 2001-983054	A1	20011016 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-422397, filed on 21 Oct 1999, PATENTED Continuation-in-part of Ser. No. US 1999-316870, filed on 21 May 1999, PATENTED	

NUMBER	DATE
US 1998-86494P	19980522 (60)
PRIORITY INFORMATION:	
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER DRIVE, SIXTEENTH FLOOR, NEWPORT BEACH, CA, 92660
NUMBER OF CLAIMS:	9
EXEMPLARY CLAIM:	1
LINE COUNT:	791
CAS INDEXING IS AVAILABLE FOR THIS PATENT.	

L5 ANSWER 5 OF 5 USPATFULL on STN
ACCESSION NUMBER: 2001:179137 USPATFULL
TITLE: Benzimidazole derivatives as modulators of IgE
INVENTOR(S): Sircar, Jagadish C., San Diego, CA, United States
Richards, Mark L., La Jolla, CA, United States
Campbell, Michael G., Durham, NC, United States
Major, Michael W., Glendale, WI, United States

PATENT ASSIGNEE(S) : Avanir Pharmaceuticals, San Diego, CA, United States (U.S. corporation)

NUMBER	KIND	DATE
US 6303645	B1	20011016
APPLICATION INFO.:	US 1999-422397	19991021 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-316870, filed on 21 May 1999, now patented, Pat. No. US 6271390

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-86494P	19980521 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Jarvis, William R. A.	
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear, LLP	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
LINE COUNT:	705	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:796470 CAPLUS
 DOCUMENT NUMBER: 139:307690
 TITLE: Preparation of isoquinoline and isochroman derivatives
 for treating virus infectious diseases
 INVENTOR(S): Inoue, Takayuki; Maki, Katsuyuki; Hatakenaka, Kazuaki;
 Yamagishi, Yukiko
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 53 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082265	A2	20031009	WO 2003-JP3929	20030328
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			AU 2002-1481	A 20020402
			AU 2002-2002953603A	20021230

L12 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:796412 CAPLUS
 DOCUMENT NUMBER: 139:307758
 TITLE: Use of benzimidazole analogs in the treatment of cell
 proliferation
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.
 PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA
 SOURCE: PCT Int. Appl., 280 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082186	A2	20031009	WO 2003-US6981	20030306
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 2002-367686P	P 20020325

L12 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:507700 CAPLUS
 DOCUMENT NUMBER: 139:69945
 TITLE: Rigid-rod, ion-conducting polyimide copolymers
 INVENTOR(S): Litt, Morton H.; Savinell, Robert F.; Wainright, Jesse S.; Zhang, Yue
 PATENT ASSIGNEE(S): Case Western Reserve University, USA
 SOURCE: U.S., 28 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6586561	B1	20030701	US 2000-507086	20000218
PRIORITY APPLN. INFO.:			US 1999-120482P	P 19990218
REFERENCE COUNT:	28	THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L12 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:5494 CAPLUS
 DOCUMENT NUMBER: 138:55965
 TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE
 INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 128 pp., Cont.-in-part of U.S. Ser. No. 422,397.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003004203	A1	20030102	US 2001-983054	20011016
US 6271390	B1	20010807	US 1999-316870	19990521
US 6303645	B1	20011016	US 1999-422397	19991021
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980522
			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

OTHER SOURCE(S): MARPAT 138:55965

L12 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:827772 CAPLUS
 DOCUMENT NUMBER: 137:304798
 TITLE: Screening of Schwann cell activators
 INVENTOR(S): Konishi, Osamu; Inoue, Makoto; Kishino, Akiyoshi; Nakayama, Chikao; Kumagaya, Kazuo
 PATENT ASSIGNEE(S): Sumitomo Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002318231	A2	20021031	JP 2001-121861	20010420

PRIORITY APPLN. INFO.: JP 2001-121861 20010420
OTHER SOURCE(S): MARPAT 137:304798

L12 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:416320 CAPLUS
DOCUMENT NUMBER: 138:130666
TITLE: Novel benzimidazole derivatives selectively inhibit endothelial cell growth and suppress angiogenesis in vitro and in vivo
AUTHOR(S): Hori, Akira; Imaeda, Yasuhiro; Kubo, Keiji; Kusaka, Masami
CORPORATE SOURCE: Pharmaceutical Discovery Research Division, Takeda Chemical Industries, Ltd., Jusohonmachi, Osaka, 532-8686, Japan
SOURCE: Cancer Letters (Shannon, Ireland) (2002), 183(1), 53-60
PUBLISHER: Elsevier Science Ireland Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:300234 CAPLUS
DOCUMENT NUMBER: 137:362545
TITLE: Small molecule modulators of HIV Rev/Rev response element interaction identified by random screening
AUTHOR(S): Chapman, Richard L.; Stanley, Thomas B.; Hazen, Richard; Garvey, Edward P.
CORPORATE SOURCE: Department of Molecular Screening, GlaxoSmithKline, Research Triangle Park, NC, 27709-3398, USA
SOURCE: Antiviral Research (2002), 54(3), 149-162
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:271984 CAPLUS
DOCUMENT NUMBER: 136:294828
TITLE: Preparation of benzimidazole analogs as down-regulators of IgE
INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.
PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA
SOURCE: U.S., 43 pp., Cont. of U.S. Ser. No. 316,870.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6369091	B1	20020409	US 1999-422304	19991021
US 6271390	B1	20010807	US 1999-316870	19990521
US 2002010343	A1	20020124	US 2001-882340	20010614
US 6451829	B2	20020917		
US 2003100582	A1	20030529	US 2002-103258	20020320
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980521
			US 1999-316870	A2 19990521

US 1999-422304 A2 19991021

OTHER SOURCE(S) : MARPAT 136:294828
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:757818 CAPLUS
DOCUMENT NUMBER: 135:303891
TITLE: Synthesis of diacylbenzimidazole derivatives as modulators of IgE
INVENTOR(S) : Sircar, Jagadish C.; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.
PATENT ASSIGNEE(S) : Avanir Pharmaceuticals, USA
SOURCE: U.S., 157 pp., Cont.-in-part of U.S. 6,271,390.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6303645	B1	20011016	US 1999-422397	19991021
US 6271390	B1	20010807	US 1999-316870	19990521
US 2002010343	A1	20020124	US 2001-882340	20010614
US 6451829	B2	20020917		
US 2003004203	A1	20030102	US 2001-983054	20011016
PRIORITY APPLN. INFO. :			US 1998-86494P	P 19980522
			US 1999-316870	A2 19990521
			US 1999-422397	A2 19991021

OTHER SOURCE(S) : MARPAT 135:303891
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:356164 CAPLUS
DOCUMENT NUMBER: 133:805
TITLE: Benzimidazole derivatives as neovascularization inhibitors and pharmaceutical compositions containing them
INVENTOR(S) : Kubo, Keiji; Hori, Akira; Kusaka, Masami
PATENT ASSIGNEE(S) : Takeda Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 77 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000143635	A2	20000526	JP 1999-158035	19990604
PRIORITY APPLN. INFO. :			JP 1998-162489	A 19980610
			JP 1998-246689	A 19980901

OTHER SOURCE(S) : MARPAT 133:805

L12 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:214835 CAPLUS
DOCUMENT NUMBER: 132:265201
TITLE: Preparation of imidazole derivatives as gonadotropin-releasing hormone antagonists
INVENTOR(S) : Suzuki, Nobuhiro; Takekawa, Shiro; Kubo, Keiji; Imaeda, Yasuhiro
PATENT ASSIGNEE(S) : Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 79 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000095767	A2	20000404	JP 1998-273013	19980928
PRIORITY APPLN. INFO.:			JP 1998-273013	19980928

OTHER SOURCE(S): MARPAT 132:265201

L12 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:763869 CAPLUS

DOCUMENT NUMBER: 132:12307

TITLE: Preparation of 2-[(aroylamino)phenyl]benzimidazoles as IgE inhibitors

INVENTOR(S): Sircar, Jagadish; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.

PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9961020	A1	19991202	WO 1999-US11490	19990521
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG				
CA 2332985	AA	19991202	CA 1999-2332985	19990521
AU 9943120	A1	19991213	AU 1999-43120	19990521
AU 754943	B2	20021128		
EP 1079830	A1	20010307	EP 1999-953286	19990521
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9910642	A	20011009	BR 1999-10642	19990521
JP 2002516277	T2	20020604	JP 2000-550480	19990521
NZ 508413	A	20030829	NZ 1999-508413	19990521
ZA 2000007754	A	20010816	ZA 2000-7754	20000221
NO 2000005889	A	20010122	NO 2000-5889	20001121
ZA 2000007753	A	20010718	ZA 2000-7753	20001221
ZA 2000007752	A	20011205	ZA 2000-7752	20001221
PRIORITY APPLN. INFO.:			US 1998-86494P	P 19980522
			WO 1999-US11490	W 19990521

OTHER SOURCE(S): MARPAT 132:12307

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:763868 CAPLUS

DOCUMENT NUMBER: 132:12306

TITLE: Preparation of 2-[(aroylamino)phenyl]-5-(aroylamino)benzimidazoles and analogs as IgE
inhibitors

INVENTOR(S) : Sircar, Jagadish; Richards, Mark L.; Campbell, Michael G.; Major, Michael W.
 PATENT ASSIGNEE(S) : Avanir Pharmaceuticals, USA
 SOURCE: PCT Int. Appl., 71 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9961019	A1	19991202	WO 1999-US11322	19990521
W:	AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG			
CA 2332989	AA	19991202	CA 1999-2332989	19990521
AU 9940942	A1	19991213	AU 1999-40942	19990521
AU 754562	B2	20021121		
EP 1077700	A1	20010228	EP 1999-924442	19990521
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
BR 9910641	A	20011002	BR 1999-10641	19990521
JP 2002516276	T2	20020604	JP 2000-550479	19990521
ZA 2000007754	A	20010816	ZA 2000-7754	20000221
NO 2000005888	A	20010122	NO 2000-5888	20001121
ZA 2000007753	A	20010718	ZA 2000-7753	20001221
ZA 2000007752	A	20011205	ZA 2000-7752	20001221
PRIORITY APPLN. INFO. :			US 1998-86494P	P 19980522
			WO 1999-US11322	W 19990521

OTHER SOURCE(S) : MARPAT 132:12306
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1995:406145 CAPLUS
 DOCUMENT NUMBER: 123:84178
 TITLE: New rigid-chain copoly(naphthoyleneimidobenzimidazoles) and their films
 AUTHOR(S) : Ponomarev, I. I.; Nikol'skii, O. G.; Volkova, Yu. A.;
 Zakharov, A. V.
 CORPORATE SOURCE: Nesmeyanov Institute of Organoelement Compounds,
 Russian Academy of Sciences, Moscow, 117813, Russia
 SOURCE: Vysokomolekulyarnye Soedineniya, Seriya A i Seriya B
 (1994), 36(9), 1429-37
 CODEN: VSSBEE
 PUBLISHER: MAIK Nauka
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian

L12 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1987:197007 CAPLUS
 DOCUMENT NUMBER: 106:197007
 TITLE: Effect of different unit structure related to asymmetry of one of the monomers of poly(amidobenzimidazole) properties
 AUTHOR(S) : Gel'mont, M. M.; Braverman, L. P.; Smirnova, V. N.;
 Kulichikhin, V. G.; Efros, L. S.
 CORPORATE SOURCE: Leningr. Nauchno-Issled. Inst. Khim. Volokon Komp.

SOURCE: Mater., Leningrad, USSR
Vysokomolekulyarnye Soedineniya, Seriya A (1987),
29(3), 537-43
CODEN: VYSAAF; ISSN: 0507-5475

DOCUMENT TYPE: Journal
LANGUAGE: Russian

L12 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1987:129047 CAPLUS
DOCUMENT NUMBER: 106:129047
TITLE: Mass spectrometric study of dissociative ionization of low-molecular models of aromatic polyamides
AUTHOR(S): Pozdnyakov, O. F.; Yudin, V. S.
CORPORATE SOURCE: Fiz.-Tekh. Inst. im. Ioffe, Leningrad, USSR
SOURCE: Khimiya Vysokikh Energii (1987), 21(1), 38-44
CODEN: KHVKA0; ISSN: 0023-1193

DOCUMENT TYPE: Journal
LANGUAGE: Russian

L12 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1987:33811 CAPLUS
DOCUMENT NUMBER: 106:33811
TITLE: Hydrodynamic and optical properties of polyamides containing benzimidazole rings symmetrically incorporated into the chain
AUTHOR(S): Lavrenko, P. N.; Shtennikova, I. N.; Garmonova, T. I.; Mikryukova, O. I.; Gel'mont, M. M.; Efros, L. S.
CORPORATE SOURCE: Inst. Vysokomol. Soedin., Leningrad, USSR
SOURCE: Vysokomolekulyarnye Soedineniya, Seriya A (1986), 28(10), 2102-7
CODEN: VYSAAF; ISSN: 0507-5475

DOCUMENT TYPE: Journal
LANGUAGE: Russian

L12 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1986:407805 CAPLUS
DOCUMENT NUMBER: 105:7805
TITLE: Study of thermodynamics of the precipitation of a polyheteroarylene using low-molecular-weight models
AUTHOR(S): Karchmarchik, O. S.; Slavina, Z. N.; Gal, A. E.; Direnko, L. Yu.
CORPORATE SOURCE: USSR
SOURCE: Khimicheskie Volokna (1986), (2), 18-21
CODEN: KVLKA4; ISSN: 0023-1118

DOCUMENT TYPE: Journal
LANGUAGE: Russian

L12 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1985:560977 CAPLUS
DOCUMENT NUMBER: 103:160977
TITLE: Mass-spectrometry study of thermal degradation of fiber-forming aromatic polyamides
AUTHOR(S): Gal, A. E.; Perepelkin, K. E.; Pozdnyakov, O. F.; Yudin, V. S.; Gel'mont, M. M.
CORPORATE SOURCE: USSR
SOURCE: Khimicheskie Volokna (1985), (4), 14-17
CODEN: KVLKA4; ISSN: 0023-1118

DOCUMENT TYPE: Journal
LANGUAGE: Russian

L12 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1983:540428 CAPLUS
DOCUMENT NUMBER: 99:140428
TITLE: Synthesis of symmetric terephthaloyl derivatives of

AUTHOR(S) : 2-(p-aminophenyl)-5-aminobenzimidazoles as monomers
for polyamides
Gel'mont, M. M.; Akulin, Yu. I.; Strelets, B. Kh.;
Efros, L. S.

CORPORATE SOURCE: Lening. Eksp. Zavod, Vses. Nauchno-Issled. Proektn.
Inst. Iskusstven. Volokna, Leningrad, 195030, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1983), (7),
975-81

DOCUMENT TYPE: CODEN: KGSSAQ; ISSN: 0453-8234
Journal

LANGUAGE: Russian

OTHER SOURCE(S) : CASREACT 99:140428

=>

L12 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN

IT 165677-25-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and tensile characteristics of copoly(naphthoyleneimidobenzimidazoles) films)

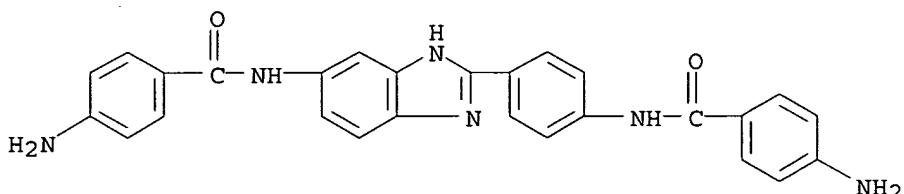
RN 165677-25-8 CAPLUS

CN Benzamide, 4-amino-N-[4-[5-[(4-aminobenzoyl)amino]-1H-benzimidazol-2-yl]phenyl]-, polymer with 2-(4-aminophenyl)-1H-benzimidazol-5-amine and [2]benzopyrano[6,5,4-def][2]benzopyran-1,3,6,8-tetrone (9CI) (CA INDEX NAME)

CM 1

CRN 165677-24-7

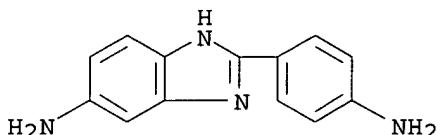
CMF C27 H22 N6 O2



CM 2

CRN 7621-86-5

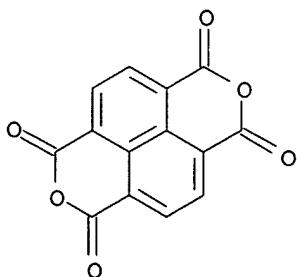
CMF C13 H12 N4



CM 3

CRN 81-30-1

CMF C14 H4 O6



AN 1995:406145 CAPLUS

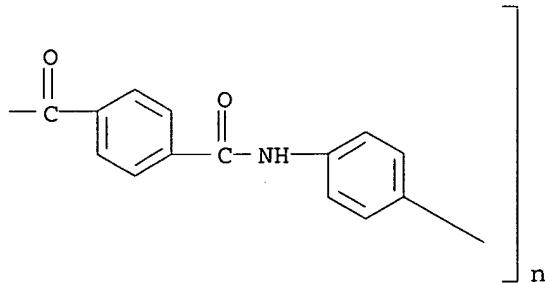
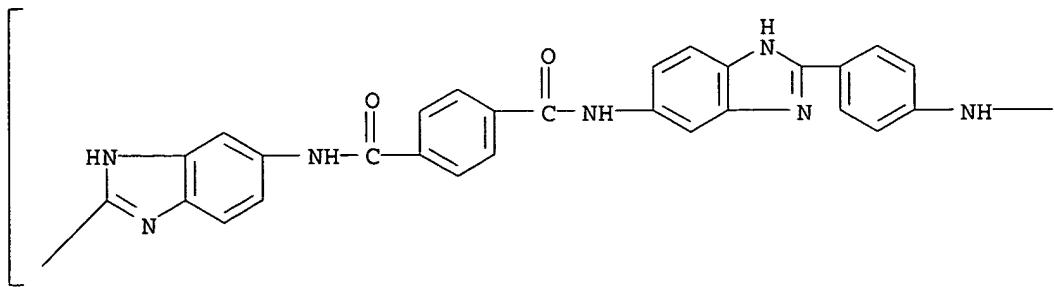
DN 123:84178

TI New rigid-chain copoly(naphthoyleneimidobenzimidazoles) and their films

AU Ponomarev, I. I.; Nikol'skii, O. G.; Volkova, Yu. A.; Zakharov, A. V.

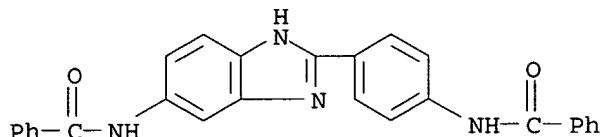
CS Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, 117813, Russia
SO Vysokomolekulyarnye Soedineniya, Seriya A i Seriya B (1994), 36(9), 1429-37
CODEN: VSSBEE
PB MAIK Nauka
DT Journal
LA Russian
CC 35-5 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37
AB New copoly(naphthoyleimidobenzimidazoles) were synthesized on the basis of 1,4,5,8-naphthalenetetracarboxylic dianhydride, 5(6)-amino-2-(p-aminophenyl)benzimidazole, and arom. rigid-rod diamines. The strength parameters of films based on these polymers increase sharply both in the initial and in an oriented state if the material contains 20-40 mol% rodlike fragments. The ultimate tensile strength of an oriented film material based on a polymer contg. 30 mol% di-Ph units reaches 1.5 GPa with the elasticity modulus of 38 GPa.
ST rigid rod polyamide polyimide polybenzimidazole; tensile polyamide polyimide polybenzimidazole film
IT Chains, chemical
 (Kuhn's segment length; prepn. and tensile characteristics of copoly(naphthoyleimidobenzimidazole) films)
IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polybenzimidazole-, prepn. and tensile characteristics of copoly(naphthoyleimidobenzimidazole) films)
IT Polybenzimidazoles
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyamide-polyimide-, prepn. and tensile characteristics of copoly(naphthoyleimidobenzimidazole) films)
IT Polyimides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polybenzimidazole-, prepn. and tensile characteristics of copoly(naphthoyleimidobenzimidazole) films)
IT Polyamides, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polybenzimidazole-polyimide-, prepn. and tensile characteristics of copoly(naphthoyleimidobenzimidazole) films)
IT Polybenzimidazoles
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (polyimide-, prepn. and tensile characteristics of copoly(naphthoyleimidobenzimidazole) films)
IT 165677-25-8P 165677-26-9P 165677-27-0P 165677-28-1P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and tensile characteristics of copoly(naphthoyleimidobenzimidazole) films)

L12 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
IT 87366-51-6
 RL: PRP (Properties)
 (microstructure of, properties in relation to)
RN 87366-51-6 CAPLUS
CN Poly(1H-benzimidazole-2,5-diyliminocarbonyl-1,4-phenylene carbonylimino-1H-benzimidazole-5,2-diyl-1,4-phenylene iminocarbonyl-1,4-phenylene carbonylimino-1,4-phenylene) (9CI) (CA INDEX NAME)

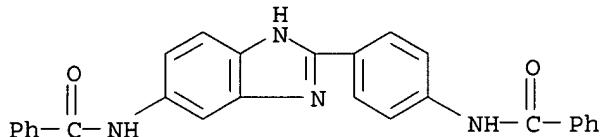


AN 1987:197007 CAPLUS
 DN 106:197007
 TI Effect of different unit structure related to asymmetry of one of the monomers of poly(amidobenzimidazole) properties
 AU Gel'mont, M. M.; Braverman, L. P.; Smirnova, V. N.; Kulichikhin, V. G.; Efros, L. S.
 CS Leningr. Nauchno-Issled. Inst. Khim. Volokon Komp. Mater., Leningrad, USSR
 SO Vysokomolekulyarnye Soedineniya, Seriya A (1987), 29(3), 537-43
 CODEN: VYSAAF; ISSN: 0507-5475
 DT Journal
 LA Russian
 CC 36-2 (Physical Properties of Synthetic High Polymers)
 AB A comparative evaluation of the Kuhn segment length, activation energy of viscous flow of 4% solns. in AcNMe₂, H bonding, and phase transitions from isotropic to liq.-cryst. state in H₂SO₄ solns. revealed no significant differences between 2-(p-aminophenyl)-6-aminobenzimidazole-terephthaloyl chloride copolymers [89871-72-7] of asym. microstructure (i.e., contg. heat-to-tail mixts.) and N,N'-bis[p-(6-aminobenzimidazol-2-yl)phenyl]terephthalamide-terephthaloyl chloride copolymer [87366-16-3] of sym. microstructure.
 ST polybenzimidazole polyamide microstructure property
 IT Polyamides, properties
 RL: PRP (Properties)
 (benzimidazole-contg., microstructure of, properties in relation to)
 IT Hydrogen bond
 (formation of, in benzimidazole group-contg. polyamides, microstructure effect on)
 IT Chains, chemical
 (microstructure of, of benzimidazole group-contg. polyamides, properties in relation to)
 IT Liquid crystals
 (of benzimidazole group-contg. polyamides, formation of, microstructure effect on)
 IT Flow
 (viscous, of benzimidazole group-contg. polyamides, activation energy)

of, microstructure effect on)
 IT 1333-74-0P
 RL: PREP (Preparation)
 (hydrogen bond, formation of, in benzimidazole group-contg. polyamides,
 microstructure effect on)
 IT 87366-16-3 87366-51-6 89871-72-7
 RL: PRP (Properties)
 (microstructure of, properties in relation to)
 L12 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 IT 98806-53-2, Bis-5,4'-dibenzanilide-2-phenylbenzimidazole
 RL: USES (Uses)
 (dissocd. ionization of, under electron-impact, radiation stability of
 arom. polyamides in relation to)
 RN 98806-53-2 CAPLUS
 CN Benzamide, N-[4-[5-(benzoylamino)-1H-benzimidazol-2-yl]phenyl]- (9CI) (CA
 INDEX NAME)



IT 107254-03-5P
 RL: PREP (Preparation)
 (formation and fragmentation of, in electron-impact dissocd.
 ionization, radiation stability of arom. polyamides in relation to)
 RN 107254-03-5 CAPLUS
 CN Benzamide, N-[4-[5-(benzoylamino)-1H-benzimidazol-2-yl]phenyl]-, radical
 ion(1+) (9CI) (CA INDEX NAME)

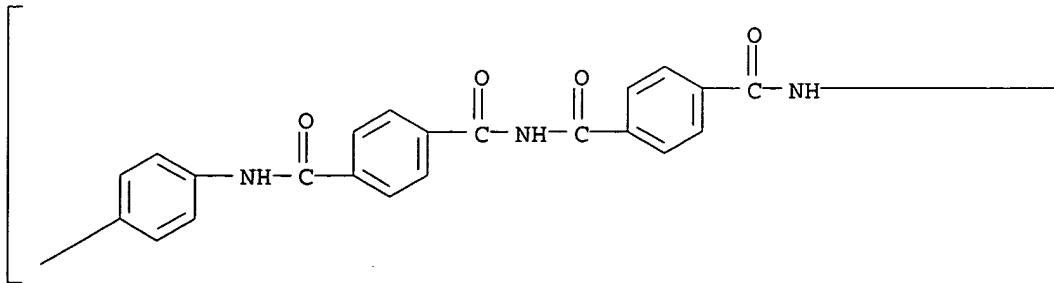


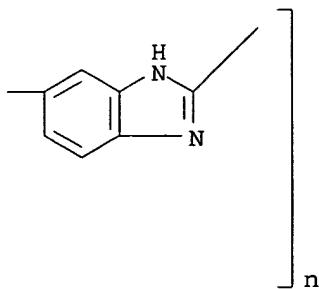
AN 1987:129047 CAPLUS
 DN 106:129047
 TI Mass spectrometric study of dissociative ionization of low-molecular
 models of aromatic polyamides
 AU Pozdnyakov, O. F.; Yudin, V. S.
 CS Fiz.-Tekh. Inst. im. Ioffe, Leningrad, USSR
 SO Khimiya Vysokikh Energii (1987), 21(1), 38-44
 CODEN: KHVKA0; ISSN: 0023-1193
 DT Journal
 LA Russian
 CC 74-1 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 AB Electron-impact dissociative ionization was studied of the low mol. wt.
 arom. compds. which could serve as the structural models of the chain
 polyamides. All the studied compds. were characterized by rather high
 values of radiation stability w (w = ratio of the no. of nondissociated
 mol. ions to the total no. of ions). The compds. which did not contain
 amide groups had higher w; the highest stability was obsd. for
 benzimidazole derivs. Introduction of an amide group led to
 destabilization of the mol. and w decrease. The compds. contg. amide
 groups bonded with a benzene ring had lower stability compare to the
 analogous compds. which did not have this bond like benzamide (w 25%) vs.

formylanilide (w 49%). The presence of the electron acceptor groups in the mol. decreased, while electron donor groups increased the radiation stability. Also, an effect of the mol. structure on the arom. polyamide stability is discussed; mechanisms are proposed of the radiation-induced degrdn. of the different polyamides, based on the anal. of the fragmentation pattern of the ions of the studied model compds.

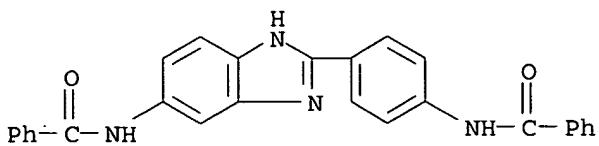
- ST polyamide radiolysis monomer dissociative ionization; amine amides
electron impact decompn
- IT Ionization in gases
(dissocd., electron-impact, of arom. low-mol. model compds. of arom. polyamides)
- IT Polyamides, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(radiation stability of, dissocd. ionization of low mol. models in relation to)
- IT Radiolysis
(electron, of low mol. wt. models of arom. polyamides)
- IT 51-17-2, Benzimidazole 55-21-0 62-53-3, Aniline, properties 93-98-1, Benzanilide 100-52-7, Benzaldehyde, properties 103-70-8 716-79-0, 2-Phenylbenzimidazole 2963-77-1 7154-31-6 7621-86-5 13755-08-3 17223-18-6 17625-83-1, p-Aminobenzanilide 19250-69-2, 5-Benzanilide-2-phenylbenzimidazole 71002-88-5 98806-50-9 98806-53-2, Bis-5,4'-dibenzanilide-2-phenylbenzimidazole 98806-54-3
RL: USES (Uses)
(dissocd. ionization of, under electron-impact, radiation stability of arom. polyamides in relation to)
- IT 17333-73-2P 19270-10-1P 107254-04-6P 107254-05-7P
RL: PREP (Preparation)
(formation and fragmentation of, in electron-impact dissocd. ionization of arom. model compds., radiation stability of arom. polyamides in relation to)
- IT 107253-97-4P 107253-98-5P 107253-99-6P 107254-00-2P 107254-01-3P
107254-02-4P 107254-03-5P
RL: PREP (Preparation)
(formation and fragmentation of, in electron-impact dissocd. ionization, radiation stability of arom. polyamides in relation to)
- L12 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
IT 106070-64-8
RL: PRP (Properties)
(hydrodynamic and optical properties of solns. of, chain configuration effect on)
- RN 106070-64-8 CAPLUS
CN Poly(1H-benzimidazole-2,5-diyliminocarbonyl-1,4-phenylene carbonyliminocarbonyl-1,4-phenylene carbonylimino-1,4-phenylene) (9CI) (CA INDEX NAME)

PAGE 1-A

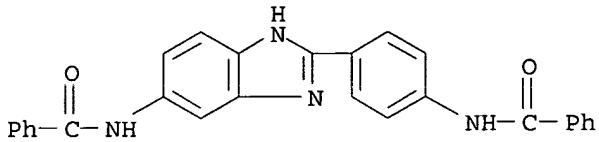




AN 1987:33811 CAPLUS
DN 106:33811
TI Hydrodynamic and optical properties of polyamides containing benzimidazole rings symmetrically incorporated into the chain
AU Lavrenko, P. N.; Shtennikova, I. N.; Garmonova, T. I.; Mikryukova, O. I.; Gel'mont, M. M.; Efros, L. S.
CS Inst. Vysokomol. Soedin., Leningrad, USSR
SO Vysokomolekulyarnye Soedineniya, Seriya A (1986), 28(10), 2102-7
CODEN: VYSAAF; ISSN: 0507-5475
DT Journal
LA Russian
CC 36-7 (Physical Properties of Synthetic High Polymers)
AB Translational diffusion, intrinsic viscosity, and birefringence of polyamide-polybenzimidazoles with different chain sequence distributions were studied in flowing H₂SO₄ solns. An increase in the fraction of the benzimidazole units of head-to-head configuration from 2/3 to 1 had no significant effect on equil. stiffness and on optical anisotropy of the chains in soln.
ST polyamide polybenzimidazole configuration soln property; diffusion polyamide polybenzimidazole configuration; viscosity polyamide polybenzimidazole configuration; flow birefringence polyamide polybenzimidazole configuration
IT Chains, chemical
(configuration of, of polyamide-polybenzimidazoles, hydrodynamic and optical properties of solns. in relation to)
IT Birefringence, flow
Diffusion
(of polyamide-polybenzimidazoles, in solns., chain configuration effect on)
IT Polyamides, properties
RL: PRP (Properties)
(benzimidazole group-contg., hydrodynamic and optical properties of solns. of, chain configuration effect on)
IT 87345-65-1
RL: PRP (Properties)
(hydrodynamic and optical properties of solns. of, as model for polyamide-polybenzimidazoles)
IT 106070-64-8
RL: PRP (Properties)
(hydrodynamic and optical properties of solns. of, chain configuration effect on)
L12 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
IT 98806-53-2 102856-31-5
RL: USES (Uses)
(pptn. of, mechanism and thermodn. of, poly(benzimidazoleterephthalimide) fiber formation in relation to)
RN 98806-53-2 CAPLUS
CN Benzamide, N-[4-[5-(benzoylamino)-1H-benzimidazol-2-yl]phenyl]- (9CI) (CA INDEX NAME)



RN 102856-31-5 CAPLUS
 CN Benzamide, N-[4-[5-(benzoylamino)-1H-benzimidazol-2-yl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



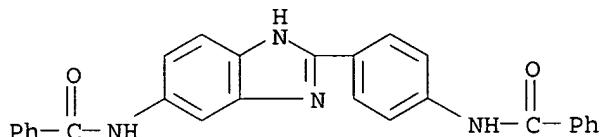
● HCl

AN 1986:407805 CAPLUS
 DN 105:7805
 TI Study of thermodynamics of the precipitation of a polyheteroarylene using low-molecular-weight models
 AU Karchmarchik, O. S.; Slavina, Z. N.; Gal, A. E.; Direnko, L. Yu.
 CS USSR
 SO Khimicheskie Volokna (1986), (2), 18-21
 CODEN: KVLKA4; ISSN: 0023-1118
 DT Journal
 LA Russian
 CC 40-2 (Textiles)
 AB Pptn. thermodn. of low-mol.-wt. models of a poly(benzimidazoleterephthalamide) and the structure of the ppts. were studied as functions of temp., pH, solvent-precipitant ratio, and electrolyte (LiCl) concn. to elucidate the mechanism of fiber formation. The pptn. proceeds via decompr. of model-LiCl (and/or solvent) assocs., induced by the precipitant. This results in the formation of precipitant-LiCl and -solvent assocs. and complete desolvation of the models. The results, esp. spectral data on ppts., indicate that the benzamide groups of the polymer are responsible for the pptn. during fiber formation.
 ST pptn polybenzimidazoleterephthalamide fiber model; thermodn pptn polybenzimidazoleterephthalamide model; polyamide fiber pptn model
 IT Heat of solution
 (of poly(benzimidazoleterephthalamide) models, fiber formation in relation to)
 IT Precipitation
 (of poly(benzimidazoleterephthalamide) models, mechanism and thermodn. of, fiber formation in relation to)
 IT Entropy
 Free energy
 (of soln., of poly(benzimidazoleterephthalamide) models, fiber formation in relation to)
 IT Polyamide fibers, preparation
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (arom., benzimidazole group-contg., prepn. of, pptn. in, model study of)
 IT 51-17-2DP, derivs., polymers
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (fiber, prepn. of, pptn. in, model study of)

IT 7447-41-8, uses and miscellaneous
 RL: USES (Uses)
 (pptn. of poly(benzimidazoleterephthalamide) in presence of, fiber
 formation in relation to, model study of)
 IT 93-98-1 716-79-0 34535-90-5 98806-53-2 102856-31-5
 RL: USES (Uses)
 (pptn. of, mechanism and thermodn. of, poly(benzimidazoleterephthalamid
 e) fiber formation in relation to)

L12 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN
 IT 98806-53-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (polymer degrdn. of, as model for arom. polyamides, mass-spectroscopic
 study of)

RN 98806-53-2 CAPLUS
 CN Benzamide, N-[4-[5-(benzoylamino)-1H-benzimidazol-2-yl]phenyl]- (9CI) (CA
 INDEX NAME)



AN 1985:560977 CAPLUS
 DN 103:160977
 TI Mass-spectrometry study of thermal degradation of fiber-forming aromatic
 polyamides
 AU Gal, A. E.; Perepelkin, K. E.; Pozdnyakov, O. F.; Yudin, V. S.; Gel'mont,
 M. M.
 CS USSR
 SO Khimicheskie Volokna (1985), (4), 14-17
 CODEN: KVLKA4; ISSN: 0023-1118
 DT Journal
 LA Russian
 CC 35-8 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 40
 AB The mechanism of thermal degrdn. of arom. polyamides, suitable for fiber
 manuf., was elucidated by analyzing the mass spectra of the model compds.
 and degrdn. products. The degrdn. of model compds. began with the
 breaking of HN-CO bonds, followed by that of arom. C-CO bonds, while with
 increasing length of model mols. the breaking of both bond types became a
 parallel process. The degrdn. of polymers proceeded via a no. of
 heterolytic and homolytic reactions, resulting in the formation of new
 structures which were stable at >700.degree.. The homolytic reactions
 involved in degrdn. were discussed in detail, and activation energies of
 degrdn. were detd. for 4 polyamides.
 ST thermal degrdn arom polyamide mechanism; mass spectrometry arom polyamide
 degrdn; kinetics thermal degrdn arom polyamide
 IT Polyamide fibers, reactions
 RL: PEP (Physical, engineering or chemical process); PROC (Process)
 (aramid, thermal degrdn. of, model study of)
 IT Polyamides, reactions
 RL: PEP (Physical, engineering or chemical process); PROC (Process)
 (arom., thermal degrdn. of, kinetics and mechanism of)
 IT Kinetics of polymer degradation
 (thermal, of arom. polyamides)
 IT Polymer degradation
 (thermal, of arom. polyamides, mechanism of)
 IT 51-17-2 55-21-0 62-53-3, reactions 93-98-1 100-52-7, reactions
 103-70-8 716-79-0 2963-77-1 7154-31-6 7621-86-5 13755-08-3
 17223-18-6 17625-83-1 19250-69-2 71002-88-5 98806-50-9

98806-52-1 98806-53-2 98806-54-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(polymer degrdn. of, as model for arom. polyamides, mass-spectroscopic study of)

IT 51-17-2D, derivs., polymers 24938-60-1 24938-64-5 24991-08-0
25035-33-0 25035-37-4

RL: PEP (Physical, engineering or chemical process); PROC (Process)
(thermal degrdn. of, kinetics and mechanism of)

L12 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2003 ACS on STN

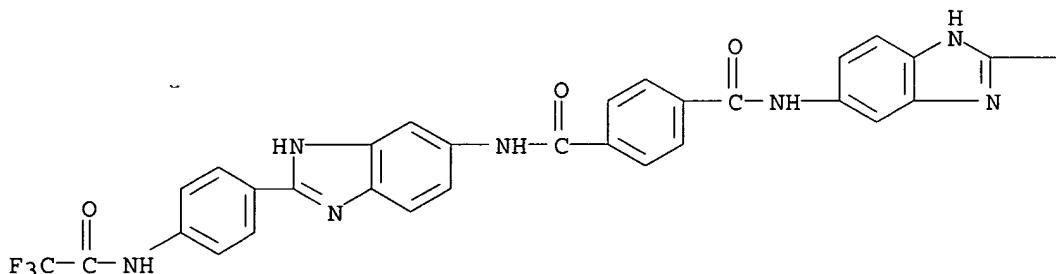
IT 87353-68-2P 87366-51-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

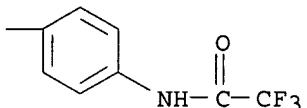
RN 87353-68-2 CAPLUS

CN 1,4-Benzenedicarboxamide, N,N'-bis[2-[4-[(trifluoroacetyl)amino]phenyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A



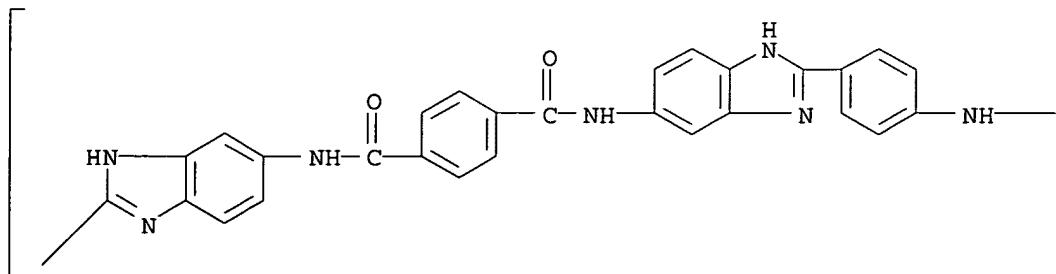
PAGE 1-B

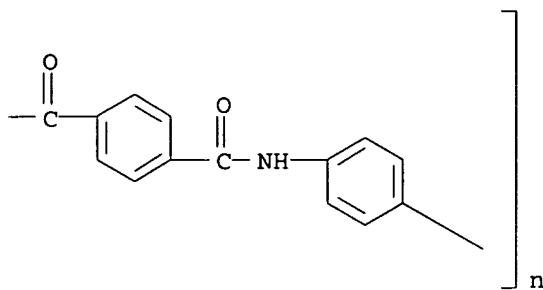


RN 87366-51-6 CAPLUS

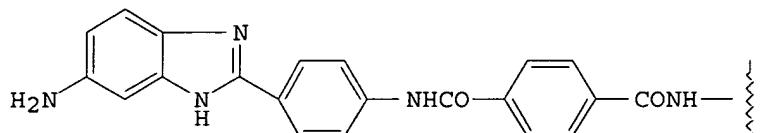
CN Poly(1H-benzimidazole-2,5-diyliminocarbonyl-1,4-phenylene carbonylimino-1H-benzimidazole-5,2-diyl-1,4-phenylene iminocarbonyl-1,4-phenylene carbonylimino-1,4-phenylene) (9CI) (CA INDEX NAME)

PAGE 1-A

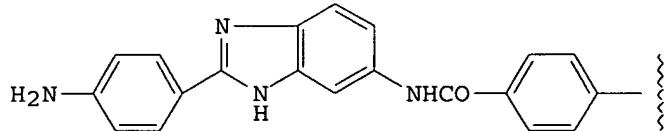




AN 1983:540428 CAPLUS
 DN 99:140428
 TI Synthesis of symmetric terephthaloyl derivatives of 2-(p-aminophenyl)-5-aminobenzimidazoles as monomers for polyamides
 AU Gel'mont, M. M.; Akulin, Yu. I.; Strelets, B. Kh.; Efros, L. S.
 CS Lening. Eksp. Zavod, Vses. Nauchno-Issled. Proektn. Inst. Iskusstven. Volokna, Leningrad, 195030, USSR
 SO Khimiya Geterotsiklicheskikh Soedinenii (1983), (7), 975-81
 CODEN: KGSSAQ; ISSN: 0453-8234
 DT Journal
 LA Russian
 CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 28
 OS CASREACT 99:140428
 GI



I



II

AB Different synthetic routes to the diamines I [87345-64-0] and (II) [87345-65-1] were studied.. The most convenient consisted of acylation of 2-(p-aminophenyl)-5-nitrobenzimidazole [71002-88-5] or 5-amino-2-(p-nitrophenyl)benzimidazole [40655-18-3] with terephthaloyl chloride (III) [100-20-9] and redn. of the NO₂ groups. The synthesis of

the nitro compds. and alternate routes to I and II are described. Polymn. of I or II with III gave linear polyamides with d.p. .apprx.50.

ST benzimidazole deriv polyamide; terephthaloyl chloride polyamide;

IT nitrophenylbenzimidazole redn; aminophenylbenzimidazole deriv polyamide

Polyamides, uses and miscellaneous

RL: SPN (Synthetic preparation); PREP (Preparation)
(benzimidazole group-contg., prepn. of)

IT 2963-77-1 27030-98-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(nitration of)

IT 7621-86-5P 28689-19-2P 69571-00-2P 87345-54-8P 87345-58-2P
87345-61-7P 87345-62-8P 87345-63-9P 87345-64-0P 87345-65-1P
87353-68-2P 87366-15-2P 87366-16-3P 87366-51-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 99-56-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminobenzoic acid)

IT 122-04-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzenetriamine)

IT 615-71-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with bis(carboxyphenyl)terephthalamide)

IT 97-02-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with bis[(chloroformylphenyl]terephthalamide)

IT 87345-57-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dinitroaniline)

IT 66248-00-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with nitrobenzoyl chloride)

IT 150-13-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with nitrophenylenediamine)

IT 40655-18-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with terephthaloyl chloride)

IT 71002-88-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with terephthaloyl chloride and trifluoroacetic anhydride)

IT 70142-79-9 87345-56-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with triaminobenzene)

IT 100-20-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of, with (aminophenyl)nitrobenzimidazole and derivs.)

IT 87345-59-3
RL: USES (Uses)
(redn. and terephthaloylation of)

IT 1772-39-0 87345-55-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(redn. of)

IT 87345-60-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(thermal cyclization of)